

Consequences

DEAR FAMILIES

Welcome to the fourth issue of the STEC@UKZN "Lock Down". We hope that you enjoyed the first issues and had a great time with all the activities.

Take turns in writing down sentences to a story! Read out the final story and surprise..., you might get hilarious results.

How to play

You need a minimum of 2 players.

Each player starts with a piece of paper. The players each write a phrase as the first step in a story, and then fold the paper to hide the phrase before passing it to the next player.

Replace the things in the brackets by the chosen words or phrase:

1. (adjective for boy, e.g. small, big)
2. (boy's name)
3. **met** (adjective for girl, e.g. small, big)
4. (girl's name)
5. **in/at/on** (where they met)
6. **He said** (what he said)
7. **She said** (what she said)
8. **He** (what he did)
9. **She** (what she did)
10. **The consequence was** (what happened).

Once you have finished with all the ten steps the piece of paper is unfolded in turn and the players read out the full story.

Example:

(1) The thin and invincible (2) Stuart (3) met the charming (4) Dudu (5) in the bathroom; (6) He said: "How's your dog?" (7) She said: "I'm sick of eating hamburgers"; (8) He brushed his teeth. (9) She fell to the floor. (10) The consequence was she went snorkelling.

Sources: <https://www.wikihow.com/Play-Consequences>
<http://www.papg.com/show?1TXW>

Join us next Thursday for our "live" workshop on "Exploring the exciting world of matter! For more information contact us via email on: stec@ukzn.ac.za



WHAT ANIMAL AM I?

I have four legs.
I am active at dawn and dusk.
I don't really need water to survive.
I can do multiple leaps into the air and get as high as 2 m.
I live mainly in south and southwestern Africa.
I prefer short grass, but will also eat herbal shrubs and bushes.
I have 2 horns.
I am the national animal of South Africa.
They even named a famous sports team after me.



WHAT FRUIT OR VEGGIE AM I?

I am a bulb.
My colours are mostly red, yellow/brown and white.
People have used me as a vegetable for almost 7000 years.
Egyptians worshipped me and I am even mentioned in the bible.
I have different layers.
I contain almost 89% water.
I am high in vitamins and minerals and an excellent source of vitamin C.
When you cut me I can make you cry.



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"Lock Down"

MATHEMATICS CHALLENGE

MathsDoku

1. Fill in each square cell in the puzzle with a number between 1 and 4.
2. Just like Sudoku, you can use the number 1,2,3,4 exactly once in each row and each column.
3. Here comes the challenge. The numbers in each "Cage" (indicated by the heavy lines) must make the cage's target number using the indicated math operation (e.g. $3\div$ you can get the target number 3 through division only, if you use the numbers 3 and 1).

24x			
3+		4x	12x
12x	6x		
		2÷	

Courtesy of:
<https://www.puzzlesandbrains.com/puzzlesfiles/mathdoku/0404MathDokuEasy1to4.pdf>



"ESSENTIAL GOODS" EXPERIMENT

The bubbling clues to magma viscosity and eruptions

You will need:

- 2 glasses
- 2 drinking straws
- Water and a viscous liquid (e.g. honey, corn syrup, or syrup). Enough to fill two-thirds of each container and plenty of paper towels.



Participate and Win

"THINGS THAT I WANT TO DO AFTER THE LOCKDOWN"

For more information visit www.stec.ukzn.ac.za
or e-mail us stec@ukzn.ac.za
Competition ends 31 May 2020

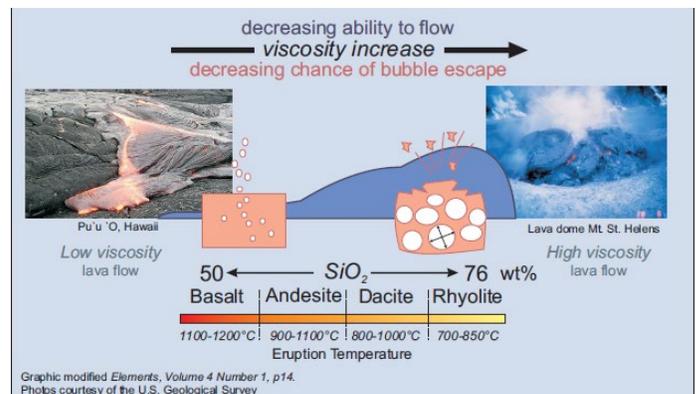
What to Do:

1. Pour the viscous liquid (eg. honey, syrup) into one glass and the water into the other.
2. Use the drinking straw and blow bubbles into the water. That was easy wasn't it?
3. Now use the other straw and the same 'blow' to blow bubbles in the more viscous liquid. Do you notice a difference? You might have to blow harder, but watch out for "erupting" lava!

How were the "eruptions" different? How were the bubbles different?

What's Happening?

Some liquids are less runny (more viscous) than others. When you blow into the water the bubbles form more easily because of the low viscosity. The water bubbles are small and soon disappear. The viscous liquid bubbles are much larger and last longer. Higher viscosity magmas are much more explosive and dangerous. They usually form strato volcanoes. Low viscosity magmas usually form shield volcanoes.



Adapted from:
https://www.earthlearningidea.com/PDF/126_Bubblemania.pdf

Solution:
What animal am I: Springbok
What fruit or veggie am I: Onion
Mathematics Challenge:

24x			
1	4	3	2
3+	2	1	4x 12x 4 3
12x	3	6x 2	1 4
4	3	2÷ 2	1

